

PCT

INTERNATIONAL SEARCH REPORT

17 DEC 2004

(PCT Article 18 and Rules 43 and 44)

Applicants or agents file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
PC/GW/P12895PC	ACTION			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/GB 03/02613	18/06/2003	18/06/2002		
Applicant				
UNIVERSITY COURT OF THE UN	IIVERSITY OF DUNDEE			
This International Search Report consists of	of a total of 8 sheets.	·		
X It is also accompanied by a	a copy of each prior art document cited in this	report.		
Basis of the report				
a. With regard to the language, the in	nternational search was carried out on the basess otherwise indicated under this item.	sis of the international application in the		
Authority (Hule 23.1(b)).	as carried out on the basis of a translation of th			
 b. With regard to any nucleotide and was carried out on the basis of the 	I/or amino acid sequence disclosed in the in sequence listing:	sternational application, the international search		
contained in the internation	nal application in written form.			
	national application in computer readable form	n.		
	this Authority in written form.			
	this Authority in computer readble form.			
the statement that the subs international application as	sequently furnished written sequence listing do s filed has been furnished.	oes not go beyond the disclosure in the		
the statement that the infor furnished	mation recorded in computer readable form is	s identical to the written sequence listing has been		
2. X Certain claims were foun	nd unsearchable (See Box I).			
3. X Unity of invention is lack	· · · · · · · · · · · · · · · · · · ·			
4. With regard to the title,				
X the text is approved as submitted by the applicant.				
<u> </u>	the text has been established by this Authority to read as follows:			
	,			
5. With regard to the abstract,				
X the text is approved as submitted by the applicant.				
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.				
6. The figure of the drawings to be published with the abstract is Figure No.				
as suggested by the applica		X None of the figures.		
because the applicant failed	d to suggest a figure.	[]		
because this figure better c	haracterizes the invention.			



International application No. PCT/GB 03/02613

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)			
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2. X	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210			
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)			
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:			
	see additional sheet			
1. X	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.			
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:			
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark (The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.			

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-19

A method of forming metal deposit on a substrate comprising irradiating a photosensitive organometallic compound with UV radiation and reducing the irradiated compound to form metal deposits adhered to the substrate. The metal deposits obtainable thereof.

2. Claims: 20-40

A photosensitive organometallic compound and a process for producing it

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claim 20 relate to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds of formula (I), where M is any of the metals listed in claim 20, A is oxygen or sulfur, X is 0 or 1, R is a fluoroorgano group of 1-12 carbon atoms, L is cyclooctatetraene or cyclooctadiene.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.



International Application No PCT/GB 03/02613

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C23C18/08 C23C18/14

C07F1/08

CO7F1/10

C23C18/06 C07F1/12

H05K3/10 C07F9/00 C07F15/00 C07F11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	EP 0 493 709 A (ABB PATENT GMBH) 8 July 1992 (1992-07-08)	17-19
Υ	claims	1,3,8,9, 12-14
X	FR 2 643 775 A (COTTE MARIE THERESE ; RAMY JEAN PIERRE (FR))	17-19
Y	31 August 1990 (1990-08-31) claims	1,3,8,9, 12-14
A	EP 0 391 314 A (MATSUSHITA ELECTRIC IND CO LTD) 10 October 1990 (1990-10-10) the whole document	1-19
•	-/	

X Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.		
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
Date of the actual completion of the international search 26 January 2004	Date of mailing of the international search report [句, 句之, 句句		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Brisson, 0		

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
Α	WO 96 29726 A (MATSUSHITA ELECTRONICS CORP;SYMETRIX CORP (US)) 26 September 1996 (1996-09-26) the whole document	1-19	
X	CLARK, H. C. ET AL: "Reactions of (.pi1,5-cyclooctadiene)organoplatinum(II) compounds and th synthesis of perfluoroalkylplatinum complexes" JOURNAL OF ORGANOMETALLIC CHEMISTRY (1973), 59, 411-28, XP002268048 abstract page 426 page 421	20-40	
X	YANG, DONG SHENG ET AL: "Electronic structure of square-planar cis-bis(trifluoromethyl)platinum(II complexes from UV photoelectron spectra and SCF-MS-X.alpha. calculations" INORGANIC CHEMISTRY (1990), 29(13), 2496-501, XP002268049 paragraph [EXPERIMENTAL]	20-40	
x	US 4 530 879 A (DRAHNAK, TIMOTHY J.) 23 July 1985 (1985-07-23) column 4, line 8-57	20-28	
x	DEACON, G. B. ET AL: "Preparation and ligand displacement reactions of diene(polyfluorophenyl)platinum(II) complexes" JOURNAL OF ORGANOMETALLIC CHEMISTRY (1987), 322(2), 257-68, XP002268050 abstract	20-27	
(KING, R. B. ET AL: "Organosulfur derivatives of the metal carbonyls. XIV. Reactions of trifluoromethylthiosilver with certain norbornadiene and tetraphenylcyclobutadienemetal complexes" INORGANIC CHEMISTRY, vol. 10, no. 7, 1971, pages 1376-1379, XP002268051 the whole document	20-27	



International Application No PCT/GB 03/02613

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GARCIA, J. ET AL: "Homoleptic binuclear platinum compounds with C6F5S- and C6HF4S-" INORGANICA CHIMICA ACTA (1993), 207(1), 93-6, XP002268052 page 93 -page 94	20-27
X	RIVERA, GUILLERMINA ET AL: "Dynamic Study of Homoleptic Bimetallic Platinum(II) Complexes Bridged by Fluorinated Benzenethiolates" INORGANIC CHEMISTRY (2001), 40(22), 5575-5580, XP002268053 page 5576 -page 5577	20-27
(BRUNE, HANS ALBERT ET AL: "Photochemical reactivity of substituted [.eta.2-bis(diphenylstibino)methane]bis(phenyl)platinum(II) compounds" JOURNAL OF ORGANOMETALLIC CHEMISTRY (1989), 371(1), 113-20, XP002268054 page 118, paragraph SYNTHESEN	20-26
(CHAUDHURY, N. ET AL: "Preparation and electronic spectra of some alkyl- and aryl(2,2'- bipyridine)platinum(II) complexes" JOURNAL OF ORGANOMETALLIC CHEMISTRY (1975), 84(1), 105-15, XP002268055 the whole document	20-25
(ESPINET, P. ET AL: "3,5-dichlorotrifluorophenyl complexes, aryl derivatives with simple 19F NMR structural probes. The synthesis of general precursors for Pd- and Pt complexes" JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol. 551, 1998, pages 9-20, XPO02268056 the whole document	20-25



Information on patent family members

International Application No PCT/GB 03/02613

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0493709	A	08-07-1992	DE EP JP JP JP	4042220 A1 0493709 A2 2065945 C 4362178 A 7100868 B	02-07-1992 08-07-1992 24-06-1996 15-12-1992 01-11-1995
FR 2643775	Α	31-08-1990	FR	2643775 A1	31-08-1990
EP 0391314	Α	10-10-1990	JP JP DE DE EP KR US	2264254 A 2538043 B2 69015857 D1 69015857 T2 0391314 A2 9302698 B1 5173330 A	29-10-1990 25-09-1996 23-02-1995 24-05-1995 10-10-1990 07-04-1993 22-12-1992
WO 9629726	А	26-09-1996	US CA CN EP JP WO US US US	6133050 A 2214563 A1 1179231 A ,B 0815587 A1 11508086 T 9629726 A1 6537830 B1 5909042 A 5871853 A 6559469 B1 2003152813 A1	17-10-2000 26-09-1996 15-04-1998 07-01-1998 13-07-1999 26-09-1996 25-03-2003 01-06-1999 16-02-1999 06-05-2003 14-08-2003
US 4530879	A	23-07-1985	AT AU CA DE DK EP JP JP JP KR	34986 T 565429 B2 2522584 A 1256060 A1 3471937 D1 130884 A 0122008 A1 8601219 A1 1784446 C 4077026 B 59168061 A 9303805 B1	15-06-1988 17-09-1987 06-09-1984 20-06-1989 14-07-1988 05-09-1984 17-10-1984 16-02-1986 31-08-1993 07-12-1992 21-09-1984 13-05-1993